HR31 Pro							Γrai	inin	ıg										
				embe															
Non-Project Manag						Stan	dar	d (N	Iay	199	5)								
	M		TÊI	R LI	ST						es.								
	Level Required:	F = FamiliarityW=Working E=Expert D=Demonstrated Ability	Project Management Overview (Includes PMC11 Train	PMMS5 Best Practices in DOE Project Management	Project Planning	Cost & Schedule Estimation & Analysis	PMMS3 Project Execution	PMCE01 Life Cycle Cost Estimating	PMCE02 Systems Engineering	PMCE03 Project Risk Analysis and Management	PMMS11Budgeting & Accounting for DOE Program/Project Managers	PIGM01 Program Management Overview	Program Planning	Program Execution, Control, & Evaluation	Effective Managerial Decision Making	Contracting Officer's Representative	Acquisition Management for Technical Personnel	Performance Based Management Contracting	Life Cycle Asset Management
Required Competencies:	Le	놴	PMC10 Pro	PMMS5 Be	PMMS1 Pro	PMMS2 Co	PMMS3 Pro	PMCE01Lif	PMCE02Sy	PMCE03Pro	PMMS11Bu	PIGM01 Pro	PGM02 Pro	PGM05 Pro	PGM06 Ef	PRS17 Co	PRS25 Ac	PSIN28 Pe	PSIN29 Lif
•																			
1.19 Working level knowledge of the following engineering desig		Ш																	
principles: value engineering configuration management,																			
engineering, reverse engineering, life cycle cost, maintain	abilii	ίy	_		_			F	F	1				1				1	F
1.19a. Define: value engineering, configuration management,			F	F	F	F	F	F	F										F
systems engineering, reverse engineering, life cycle c	USI,	-																	
maintainability	ita			1															1
1.19b. Describe the reverse engineering process and its benef1.19c. Describe how the principles of value engineering can be			F	F	F	F			F							\vdash			
applied to mechanical systems projects	1	\vdash	1	<u> </u>	1	1	1		1	1				1				1	
1.19d. Explain how life cycle costs are determined for a mechanical systems projects	nica		F	F	F	F		F											F
system and how those costs can be used		i	•	•	-			•											
1.19e. Explain systems engineering principles and benefits			F	F	F	F	F		F										
1.19f. Describe why maintainability must be considered in			F	F	F	Ė	F												
mechanical system design																			
1.19g. Discuss the principles and importance of configuration management			F	F	F		F												
2.2 Familiarity level knowledge of DOE Standard DOE-STD-107	'3-93	3.						l			l					_			
Guide for Operational Configuration Management Program	T	Ė																	
2.2a. Describe the purpose and objectives of the Operational			F	F	F		F												Π
Configuration Management Program			-	•				1			1								_
2.2b. Discuss what constitutes acceptable contractor																			
compliance consistent with the requirements of DOE-ST	D-			1															
1073-93, Guide for Operational Configuration Manageme		П																	
Program, for the following elements of the contractor's Configuration Management plan:																			

2.2b. Discuss what constitutes acceptable contractor performa	nce																		
consistent with the requirements of DOE-STD-1073-93	, Guid	е																	
for Operational Configuration Management Program, for	r the																		
following elements of the contractor's Configuration																			
Management Plan:																			
2.2c. Discuss the following elements of the Configuration Man	agem	ent	F	F	F	F	F		F								$\overline{}$		
Program: design requirements, document control, chan					-				<u> </u>	<u> </u>			<u> </u>		<u> </u>		_		
control, assessments, design reconstitution adjunct, ma	_																		
condition	atoria.	_																	
2.2d. Discuss the purpose, concepts, and general process for	apply	ina	_	F	F	F	F	1	F	F	1	1	1		1	T	_		_
							'		<u> </u>	'							_		
the graded approach to operational configuration mana-	gemer	11																	
O O Warding lawed by and also of DOE Order 4700 4. Desired									_	,			_			1			
2.2 Working level knowledge of DOE Order 4700.1, Project																			
Management System as it applies to DOE construction pro																			
2.2a. Discuss the purpose, scope, and application of DOE Orc	ler		F	F	W	W	W				F	F		F		F	F	F	F
4700.1, Project Management System. Include in this																			
discussion the key terms, essential elements, and pers	onnel																		
responsibilities and authorities																			
2.2b. Discuss the project management terminology for which			F	F	W	W	W				F	F		F	F	F	F	F	F
definitions are provided in DOE Order 4700.1,										,			,						
Project Management System																			
2.2c. Discuss the responsibilities of the following positions in t	he		F	F	F	F	F		1							F	F	F	_
management of a construction project: contracting offic		_	•	•	•	•	•				1	1				•			
project manager, construction engineer, architect-engin	-	_																	
construction contractor, construction manager,	icci,	_																	
		_																	
operating contractor		_	F	F	W	10/	10/			F		1	1	1	F	1			
2.2d. Discuss the purpose of "critical decisions". Include in the			г	<u> </u>	VV	W	W	F	F	F	F				F				F
discussion the responsible authorities for critical decision	on	_						1	1	1						1			
2.2e. Support the preparation of a project execution plan for a													F						
construction project using the guidance provided in DO	E Ord	er																	
4700.1, Project Management System										1			1			1			
2.2f. Discuss the requirements that must be met to make a characteristic	ange t	o a	F	F	F	F	F	F	F	F	F							F	F
project execution plan.																			
2.2g. Discuss the following types of cost estimates used durin	g the I	life	F	F	W	W	W	F		F									
of a construction project: planning estimate, budget esti	imate,																		
Title I design estimates, Title II estimates, government																			
estimates, current working estimates, independent cost	t estim	ate																	
2.2h. Discuss the purpose and application of the Project			F	F			F									F		F	
Authorization System to construction projects																			
2.2i. Describe the aids used to control construction activities			F	F	F	F	F		F							F	F	F	
2.2j. Discuss the documents that should be maintained in the			F	F			F									F			
construction project record									<u>'</u>	'			'						
2.2k. Discuss the content, requirements, and application of Tit	le I an	ıd															$\overline{}$		
Title II Design Summaries to construction projects		-							<u> </u>								_		
2.21. Discuss the graded approach to each of the following ele	ments		F	F	W	W	W	F	F	W	F					F	F	F	F
of project baseline development: technical baseline and			•		•••	**		٠.	<u> </u>			1	1			•	'	•	÷
scope development, roles and responsibilities, cost est		_																	
planning and scheduling baseline, cost baseline	IIIIauii	у,																	
planning and scheduling baseline, cost baseline																			
2.3 Familiarity level knowledge of DOE Standard DOE-STD-10	73-93,	, [Т										
Guide for Operational Configuration Management Program		-																	
2.3a. Describe the purpose and objectives of the Operational			F	F	F		F												
Configuration Management Program			•			I		1	1	1	1	1	1	1	1	1	1	1 1	
Comigaration Management Flogram	_	_	F	F	F		F		1	1									
2.3h Discuss what constitutes acceptable contractor																		1 1	
2.3b. Discuss what constitutes acceptable contractor	TD-		•	' '						1	1	1	1	1	1	1		' '	
Discuss what constitutes acceptable contractor compliance consistent with the requirements of DOE-S 1073-93, Guide for Operational Configuration Managem					•							ļ.			I				

Program, for the following elements of the contractor's																
Configuration Management plan:																
2.3b. Discuss what constitutes acceptable contractor performance	F	F	F		F											
consistent with the requirements of DOE-STD-1073-93, Guide									,						'	
for Operational Configuration Management Program, for the	_															
following elements of the contractor's Configuration																
Management Plan:	_															
2.3c. Discuss the following elements of the Configuration Managemen	t F	ΙF	F	F	F		F		l			1			- 1	1
Program: design requirements, document control, change		١.		' '	' '		•	l		l	1					1
control, assessments, design reconstitution adjunct, materials	-															
	-															
condition			_	_	_		_	_	1			1 1			1	1
2.3d. Discuss the purpose, concepts, and general process for applying	j F	F	F	F	F		F	F								
the graded approach to operational configuration management																
10 5 11 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																
2.3 Familiarity level knowledge of DOE Order 4700.1, Project																
Management System																
2.3a. Discuss the purpose, scope, and application of DOE Order	F	F	W	W	W				F	F		F		F	F F	F
4700.1, Project Management System. Include in this																
discussion the key terms, essential elements, and personnel																
responsibilities and authorities	_															
2.3b. Given the results from an analysis of contractor noncompliance,	F	F			F									FΙ	FF	
determine the potential implications and describe how to													_			-
communicate these results to contractor and Department	_															
management Department	_															
9	F	l F	W	W	W				F	F			_	= (- -	l F
2.3c. Discuss the project management terminology for which			VV	VV	VV				F	F			г	г	- -	
definitions are provided in DOE Order 4700.1, Project	_															
Management System	_		_	_	_	_	_	_	_	_					_ _	
2.3d. Discuss in detail the roles played by various management levels		F	F	F	F	F	F	F	F	F		F		F	FF	F
within the Department as they relate to the project managemen	t															
system	_															
2.3e. Discuss the purpose of "key decisions" in the Major System	F	F	W	W	W	F	F	F	F				F			F
Acquisition (MSA) process. Include in this discussion the																
responsible authorities for key decisions																
2.3f. Describe the process by which projects are designated Major	F	F	F													F
System Acquisitions (MSA) or Major Projects																
2.3g. Given a design package for an instrumentation and control																
system, prepare a project plan using the guidance provided																
in DOE Order 4700.1, Project Management System																
2.3h. Discuss the requirements that must be met to make a change to	F	l F	F	F	F	F	F	F	F						l F	F
a project plan						' '	•		'			1 1			- ' '	١.
a project plan																
2.4 Familiarity knowledge of DOE Order 4700.1, Project Management	_	_														
, , , , , , , , , , , , , , , , , , , ,	_															_
System								1	_	_				_ .	_ _	
2.4a. Discuss the purpose, scope, and application of DOE Order	F	F	W	W	W				F	F		F		F	F F	F
4700.1, Project Management System. Include in this discussion	1															
key terms, essential elements, and personnel responsibilities																
and authorities		,														,
2.4b. Discuss the project management terminology for which	F	F	W	W	W				F	F		F	F	F	FF	F
definitions are provided in DOE Order 4700.1, Project																
Management System																
2.4c. Discuss in detail the roles played by various management levels	F	F	F	F	F	F	F	F	F	F		F		F	FF	F
within the Department as they relate to the project managemen	_	1))		1				'	1
system																
2.4d. Discuss the purpose of "critical decisions". Include in this	F	F	W	W	W	F	F	F	F				F			F
discussion the responsible authorities for critical decisions										I	1	1				
2.4e. Describe the process by which projects are designated	F	F	F													ΙF
2.46. Describe the process by which projects are designated	1 1.	1 1											$-\!\!-\!\!\!\perp$			

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2.7 Familiarity level knowledge of life cycle asset management	L																	
requirements for defense nuclear facilities																		
2.7a. Discuss the implementation requirements for DOE Order 430.1	,	F	F															F
Life Cycle Asset Management, at defense nuclear facilities	_															_		
2.7b. Define the following terms: life cycle, physical asset, strategic		F	F	F	F	F	F	F							F	F		F
system, line item project, value engineering																		
2.7c. Discuss the application of DOE Order 430.1, Life Cycle Asset		F	F	F	F	F	F	F	F	F					F	F	F	F
Management requirements for the following: asset manageme	nt																	
performance measures, physical asset acquisition, operation																		
and maintenance of physical assets, disposition of physical as	sse																	
2.7d. Discuss the responsibilities and authorities for implementing		F	F	F	F	F												F
the requirements of DOE Order 430.1, Life Cycle Asset																		
Management																		
2.7e. Describe the relationship and application of the following																		
standards: Standards/Requirements Identification Documents																		
(S/RIDS) and Work Smart Standards																		
(
2.8 Familiarity level knowledge of the DOE operational configuration	ī																	
management program	-																	
2.8a. Describe the purpose and objectives of the Operational		F	F	F		F												
Configuration Management Program	_	•			1			l	1	l	1	l						
2.8b. Discuss the following elements of the contractor's Configuration	2	F	F			F												
Management Plan: program planning, equipment scope criter		•	•		1				<u> </u>		1							
concepts and terminology, interfaces, databases, procedures	ia,																	
2.8c. Discuss the following elements of the Configuration Manageme	nt	F	F	F	F	F		F										
Program: design requirements, document control, change				•				•	1	l	1	l						
control, assessments, design reconstitution adjunct, materials	_																	
condition	_																	
2.8d. Discuss the purpose, concepts, and general process for applying	20	F	F	F	F	F	1	F	F	1		l					1	
the graded approach to operational configuration managemen		•	•	'			l	'	' '	l	1	l					- 1	
the graded approach to operational configuration management																		
2.8 Familiarity level knowledge of DOE Orders 4700.1, Project	7						1										1	
Management System, and 430.1, Life Cycle Asset Management	_																	
2.8a. Discuss the purpose, scope, and application of the DOE Orders	2	F	F	W	W	W				F	F		F		F	F	F	F
listed above. Include in this discussion the key terms, essentia	_	•	•					1		'			•		' '	• 1	•	•
elements, and personnel responsibilities and authorities	-																	
2.8b. Discuss the project management terminology for which		F	F	۱۸/	W	W	1			F	F		F	F	F	F	F	F
definitions are provided in DOE Orders listed above	_	•		• • •		VV	ļ.		1	'	٠.			'	' '		• 1	•
2.8c. Discuss in detail the roles played by various management level	lc	F	_	_	_	_	_	_	_	_	F	l	F		_	_	_	F
within the Department as they relate to project management	13	•	Į.	'			٠.	'	' '	'	' '	l			' '	' '	• 1	•
2.8d. Discuss the purpose of "critical decisions", Include in the		F	F	۱۸/	۱۸/	۱۸/	F	F	F	F		l		F			1	F
discussion the responsible authorities for critical decisions	_	•		• • •		VV	١.	'		'	1			'				•
2.8e. Describe the process by which projects are designated		F	F	F			1	l		l		l					1	F
2.00. Describe the process by which projects are designated																		
2.9 Familiarity level knowledge of DOE Order 4700.1, Project	7																	
Management System	+																	
2.9a. Discuss the purpose, scope, and application of DOE Order		F	F	W	W	W				F	F		F		F	F	F	F
4700.1, Project Management System. Include in this discussion	n	•	•				1	1	1	•		1	•		• 1	•	• 1	
the key terms essential elements, and personnel	-11																	
responsibilities and authorities	-																	
2.9b. Discuss the project management terminology for which	\neg	F	F	\//	\/\	W				F	F		F	F	F	F	F	F
definitions are provided in DOE Order 4700.1, Project	_	'	•	V V	• •	VV	1	1	1	'	' '	1			'	•	'	1
Management System	-																	
2.9c. Discuss in detail the roles played by various management level	le	F	F	F	F	F	F	F	F	F	F		F		F	F	F	F
שנים. בישט. בישט ווו detail the roles played by various management level	15	٢	г		Г	Г	[Г		Г			г		Г	Г	г	Г

within the Department as they relate to the Project																		
Management System		,																
2.9d. Discuss the purpose of "critical decisions". Include in the		F	F	W	W	W	F	F	F	F				F				F
discussion the responsible authorities for critical decisions																		
2.9e. Describe the process by which projects are designated		F	F	F														F
2.10 Familiarity level knowledge of DOE Standard DOE-STD-1073-	93,																	
Guide for Operational Configuration Management Program		1																
2.10a. Describe the purpose and objectives of the Operational		F	F	F		F												
Configuration Management Program		1																
2.10b. Discuss what constitutes acceptable contractor performance	Э	F	F	F		F												
consistent with the requirements of DOE-STD-1073-93,																		
Guide for Operational Configuration Management Progra																		
for the following elements of the contractor's Configuration	n																	
Management Plan															1			
2.10c. Discuss the following elements of the Configuration Manage	_	F	F	F	F	F		F										
Program: design requirements, document control, change																		
control, assessments, design reconstitution adjunct, mate	rials																	
condition		_		-	-					1			1	1	ı	1		
2.10d. Discuss the purpose, concepts, and general process for		F	F	F	F	F		F	F									
applying the graded approach to operational configuration	1																	
management																		
2.11 Familiarity level knowledge of DOE Order 4700.1, Project			1					1										
Management System																		
2.11a. Discuss the purpose, scope, and application of DOE Order		F	F	W	W	W	1	1		F	F	1	ΙF		F	F	F	F
4700.1, Project Management System. Include in this discus	eion	'	١.	VV	vv	VV	1		1	' '	'		١.		'	' '	'	'
the key terms essential elements, and personnel	31011																	
responsibilities and authorities																		
2.11b. Discuss the project management terminology for which		F	F	W	W	W				F	F		ΙF	F	F	F	F	F
definitions are provided in DOE Order 4700.1, Project			1 -				1	1	1			1	1 -					
Management System																		
2.11c. Discuss in detail the roles played by various management I	evels	F	F	F	F	F	F	F	F	F	F		F		F	F	F	F
within the Department as they relate to the Project		,																
Management System																		
2.11d. Discuss the purpose of "critical decisions". Include in the		F	F	W	W	W	F	F	F	F				F				F
discussion the responsible authorities for critical decisions												,						
2.11e. Describe the process by which projects are designated		F	F	F														F
3.2 Familiarity level knowledge of the general principles associated																		
with project management																		
3.2a. Discuss the purpose and requirements of the following DOE		F	F	W	W	W				F	F		F		F	F	F	F
Orders on project management: 4700.1, Project Manageme	ent																	
System and 430.1, Life Cycle Asset Management																		
3.2b. Discuss the radiation protection personnel responsibilities	4																	
related to project management, administration, and coordin	ation																	
of the radiation protection programs																		
AAWadiaa laadhaa af tha DOE araisat waxaa aa aa aa a																		
4.1 Working level knowledge of the DOE project management syste	∌m,												<u> </u>					
including how contractor resources are applied to meet																		
instrumentation and control system commitments to quality,																		
safety, cost, and schedule	tho																	
4.1 Working level knowledge of project management principles and																		_
methods used to ensure that contractor resources are applied t	O																	
meet quality, safety, technical, cost, and schedule estimates																		
4.1 Familiarity level knowledge of project management practices																		

Authorized the manage training-related programs and projects. 4.1a. Explain the purpose of project amanagement and describe the life F F F F F F F F F																			
Altb. Describe the primary roles and responsibilities of instrumentation and control personnel as outlined in DOE Order 4700.1, Project Management System 4.1b. Describe the primary roles and responsibilities of construction FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	sufficient to manage training-related programs and projects																		
Altb. Describe the primary roles and responsibilities of instrumentation and control personnel as outlined in DOE Order 4700.1, Project Management System 4.1b. Describe the primary roles and responsibilities of construction FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	4.1a. Explain the purpose of project management and describe the lif	е	F	F	F	F	F	F	F	F	F	F	F	F	F		F	F	F
A1b. Describe the primary roles and responsibilities of construction F F F F F F F F F																			
4.1b. Describe the primary roles and responsibilities of construction F F F F F F F F F	4.1b. Describe the primary roles and responsibilities of																		
4.1b. Describe the primary roles and responsibilities of construction F F F F F F F F F	instrumentation and control personnel as outlined in DOE Ord	ler																	
4.1b. Describe the primary roles and responsibilities of construction F F F F F F F F F	4700.1. Project Management System																		
management and engineering personnel as outlined in DOE Order 4700.1, Project Management System 4.1c. Describe typical documents and data sources used in project management 4.1c. Identify and explain the major elements of a project, and discuss their relationship 4.1d. Identify, explain, and discuss the relationship of the major elements of a project 4.1d. Identify, explain, and discuss the relationship of the major elements of a project 4.1d. Identify, explain, and discuss the relationship of the major elements of a project 4.1d. Explain the purpose and use of a Project Management plan 4.1d. Explain the purpose and use of a Project Management Plan (PMS) and cost and schedule 4.1d. Discuss the relationship between work breakdown structure (WSS) and cost and schedule 4.1d. Discuss the five elements of the DOE program for operational configuration management as described in DOE-STD-1073-93, Guide for Operational Configuration Management Plans (4.1d. Discuss the five elements of the DOE program for operational configuration management as described in DOE-STD-1073-93, Guide for Operational Configuration Management Plans (4.1d. Discuss the relationship between work breakdown structure (A1d. Discuss the purpose of schedules and discuss the use of milestones and activities 4.1g. Describe the purpose of schedules and discuss the use of milestones and activities 4.1g. Describe the purpose of schedules and discuss the use of milestones and activities 4.1g. Describe the critical path method of scheduling FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	, , ,		FΙ	F			F									F			F
4.10. Describe the purpose and use of a Project Execution Plan 4.10. Explain the purpose and use of a Project Execution Plan 4.10. Explain the purpose and use of a Project Execution Plan 4.10. Explain the purpose and use of a Project Execution Plan 4.10. Explain the purpose and use of a Project Execution Plan 4.10. Explain the purpose and use of a Project Execution Plan 4.10. Explain the purpose and use of a Project Execution Plan 5. F.)rde	r					l			l		l						
4.1c. Identify and explain the major elements of a project, and discuss their relationship of the major elements of a project, and discuss their relationship of the major elements of a project with the purpose and use of a project management plan F F F F F F F F F	0 01																		
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4.1c. Identify and explain the major elements of a project, and discuss their relationship (a.1.d. Identify, explain, and discuss the relationship of the major elements of a project (a.1.d. Explain the purpose and use of a project management plan (but it is plant to project (but it is plant to purpose and use of a Project Management plan (but it is plant to purpose and use of a Project Management plan (but it is plant to purpose and use of a Project Management plan (but it is plant to purpose and use of a Project Management plan (but it is plant to purpose and use of a Project Management (but it is plant to purpose and use of a Project Management (but it is plant to purpose and use of a Project Management (but it is plant to purpose and use of a Project Management (but it is plant to purpose and use of a Project Management (but it is plant to purpose and use of a Project Management (but it is plant to purpose and use of a Project Management (but it is plant to purpose and use of a Project Management (but it is plant to purpose and use of a Project Management (but it is plant to purpose and use of a Project Management (but it is plant to purpose and use of work portagement (but it is plant to purpose and use of work portagement (but it is plant to purpose and use of work packages and/or planting (but it is plant to purpose and use of work packages and/or planting (but it is purpose and use of work packages and/or planting (but it is purpose and use of work packages and/or planting (but it is purpose and use of work packages and/or planting (but it is purpose and use of work packages and/or planting (but it is purpose and use of work packages and/or planting (but it is purpose and use of work packages and/or planting (but it is purpose and use of work packages and/or planting (but it is purpose and use of work packages and/or planting (but it is purpose and use of work packages and/or planting (but it is purpose and use of work packages and/or planting (but it is purpose and use of work packages and/or planting (,,		-					-		-	-					-	-		-
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Plan (PMP)																		
4.2b. Given appropriate data, develop a work breakdown		F	F	F		1	1											
structure (WBS)			<u> </u>	'														
4.2c. Given appropriate data, develop a project's critical path		F	F		F	1	1											
schedule				1	<u> </u>				<u> </u>	<u> </u>	<u> </u>				<u> </u>	<u> </u>		<u> </u>
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4.3 Working level knowledge of program/project management		Т	T															
practices and the application of contractor resources to me	et																	
commitments to nuclear safety, quality, cost, and schedule	in																	
accordance with DOE Orders 4700.1, Project Managemen	t Syste	m,																
and 4700.4																		
4.3 Working level knowledge of program/project management																		
necessary to integrate program resources and apply those																		
resources to meet quality, safety, cost, and schedule comm	itment	s																
as described in DOE Order 4700.1, Project Management S																		
and the DOE Technical Standards	, , ,																	
4.3 Familiarity level knowledge of project management											F	F	F	F				
4.3 Familiarity level knowledge of program/project management												_		-				
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4700.1, Project Management System, and DOE Technical S	tandar	_										_		_				_
4.3a. Explain the purpose of project management		F	F	F	F	F	F	F	F	F	F	-	F	F		F	F	F
4.3a. Explain the purpose of project management within the	<u> </u>		F	F	F	F	F	F	F	F	F	F	F	F		F		
Department and describe the life cycle of a typical proje			1 -		-	-	_	_	_	-	_	_	_	_	1	_	_	_
4.3a. Explain the purpose of project management and describe	tne III	e F				F			-					F		F	F	F
cycle of a typical project	- 41				-			-		-	_	_	-	_		F		
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life cycle of a typical project					-			-		-	101	147	14/	10/	_			
4.3a. Describe typical documents and data sources utilized in	prograi	n F			F	F	F	F	F	F	VV	VV	VV	VV	F	F	F	
management.	l				-	_	_	_	_	-					_	_	-	_
4.3b. Describe typical documents and data sources utilized in	project	F	F	-	F	F	-	F	-	F	W	W	VV	VV	-	F	F	F
management			1	1														
4.3b. Describe the primary roles and responsibilities of nuclea																		
safety personnel as outlined in DOE Order 4700.1, Proj																		
Management System, and DOE Order 4700.4, Project I	vlanage	er																
Certification					_			_	_	_	_	_	_			_	_	_
4.3b. Describe the life cycle of a typical project		F	F	F	F	F	F	F	F	F	F	F	F	F	_	F	F	F
4.3b. Define baseline, graded approach, infrastructure, life-cyc		F	F	F	F	F	F	F	F	F					F	F	F	F
programmatic management, metrics and performance r				1		_												
4.3c. Describe key elements of supervising/ monitoring progra	m	F	F			F												
activities and contractors.			_					_									_	
4.3c. Describe typical documents and data sources utilized in	project	F	-	-	-	F	-	-	-	-	VV	VV	VV	VV	-	F	F	F
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Plan (PMP)	,																
Discuss the role of configuration management as it relates to project management	F	F	F		F												
4.3f. Discuss the role of configuration management as it relates to	F	F	F		F												
project management		١.															'
4.3f. Discuss the role of quality assurance as it relates to project	F	F	F		F		F			F		F					
management	'	١.				1	•			•		'					
4.3g. Discuss the role of quality assurance as it relates to project	F	F	F	ı	F	1	F			F	ı	F				1	
				l			'			•		'					1
management	F	F	F	I	F	ı	ı			F	_	ı				1	
4.3g. Explain the use of safety plans in the management of projects	F	F	W	F	W						Г			F		F	
4.3g. Describe the purpose and use of work packages and/or planning	F		VV	F	VV									г		, F	1
packages	-		_	ı	_	ı	ı			_	_	ı					
4.3h. Explain the use of safety plans in the management of projects	F	F	F		F					<u> </u>	F					\vdash	<u> </u>
4.3h. Discuss the relationship between work breakdown structure	F	F	F	F	F	F	F	F	F	F				F	F	F	F
(WBS) and cost and schedule						1					1						
4.3h. Describe the purpose of schedules and discuss the use of	F	F	F	F	F		F			F	W	F	F				
milestones and activities	,			,													
Discuss the relationship between work breakdown structure (WBS) and cost and schedule	F	F	F	F	F	F	F	F	F	F				F	F	F	F
4.3i. Describe the purpose and use of work packages and/or planning	F	F	W	F	W									F		F	
packages		1				1	1				1	1					
4.3i. Explain the use of a logic diagram	F	F		W	F					F	F	F	F				
4.3i. Describe the purpose and use of work packages and/or planning	F	F	W	F	W									F		F	
packages	,					,	,		,		,	,					
4.3j. Describe the purpose and use of work packages and/or planning	F	F	W	F	W									F		F	
packages		1 -				1								-		-	
4.3j. Describe the purpose of schedules and discuss the use of	F	F	F	F	F		F			F	W	F	F				
milestones and activities						1				•							
4.3j. Describe the "critical path method" of scheduling	F	F		W	F					F	F	F	F				
4.3k. Describe the purpose of schedules and discuss the use of	F	F	F	F	F		F			F	w	F	F			\vdash	
milestones and activities		٠.								•	• •		•				1
4.3k. Describe the critical path method of scheduling	F	F		W	F					F	F	F	F				
4.3k. Describe the entical path method of scheduling	F	F		**						•			•	_		\vdash	F
documentation		<u> </u>			'												
4.3I. Describe the critical path method of scheduling	F	F		W	F	ı	l			F	_	_	_			1	
·	F	F	W	W	W	F	F	F	F		Г	Г	Г	F	F	F	F
4.31. Explain the concept of a project management baseline and	Г	Г	VV	VV	VV	F	F	Г	г					г	Г	, F	· 「
describe the cost, schedule, and scope baselines used in																	
project management				1		1	1				1	1					
4.31. Discuss the requirements to procure external products and		<u> </u>														ш	
services for Department projects	-				101	_	_	_	_		ı	ı		_	_	_	_
4.31. Explain the concept of a project management baseline and	F	F	W	W	W	F	F	F	F					F	F	F	F
describe the four baselines used in project management	-					_	_	_	_		ı	ı		_	_		
4.3m. Explain the concept of a project management baseline and	F	F	W	W	W	F	F	F	F					F	F	F	F
describe the four baselines used in project management																	
4.3m. Describe the methods for procuring other Department or																	
Government products and services			_		_	_	_								_		
4.3n. Describe areas of project management where difficulties are	F	F	F	F	F	F	F	F	F					F	F	F	F
likely to occur																	
4.3o. Describe lessons-learned from previous projects	F	F			F									F			F
A A Washing lavel by avide day of age																	
4.4 Working level knowledge of program plans submitted by																	
contractors, including the evaluation of the scope and technical																	
merit of those plans as described in DOE Order 4700.1, Project																	
Management System, and the DOE Technical Standard,																	
DOE-STD-1073-93, G																	
4.4 Ability to perform project management duties as required to																	
																	_

provide mechanical systems technical support to a project																		
4.4 Ability to perform project management duties in providing																		
construction management and engineering support to a pro	ject																	
4.4 Working level knowledge of program/project management																		
practices and the application of contractor resources to me	et																	
commitments to occupational safety and health, nuclear sa																		
quality, cost and schedule in accordance with DOE Order 4																		
Project Management Systems																		
4.4. Familiarity level knowledge of program/project managemen	t	$\overline{}$	T															
practices and how contractor resources are applied to mee		_															_	-
commitments to emergency management quality, safety, or		d																
schedule	JUST ATT	u																
4.4a. Explain the purpose of project management		F	ΙF	_	_	F	_	F	_	F	F	F	F	F		_	_	_
4.4a. Explain the purpose of project management within the		F	<u> </u>		F	F	F	F	F	F	F	F	F	F		F	F	-
Department and describe the life cycle of a typical project	ct			F	F	F	-	F	Г	F	Г			F		F	F	F
4.4a. Given appropriate data, review a Project Management Pl					F													
report on its accuracy, as it relates to actual data	an and				Г													
4.4a. Support the preparation of a Project Execution Plan			1	1	1	1	1					F	ı					
	d	F	F	F	F	F	F	F	F	F		F			F	F	F	F
4.4b. Given program data, review a Work Breakdown Structure	and	Г	F	Г	Г	Г	Г	Г	Г	Г					Г	Г		Г
report on its accuracy, as it relates to actual data		F	l F	F	F	F	F	F	F	F		ı	ı		F	F	F	F
4.4b. Evaluate a Work Breakdown Structure (WBS)		Г	Г	Г	Г	Г	Г	Г	Г	Г					Г	Г	Г	Г
4.4b. Describe the primary role and responsibilities of EH resid	dents																	
consistent with the requirements in DOE Order 4700.1,																		
Project Management System		_																
4.4b. Describe the life cycle of a typical project		F	F	F	F	F	F	F	F	F	F	F	F	F		F	F	F
4.4c. Given data, identify a project's critical path schedule		F	F		F	F												
4.4c. Evaluate a project's critical path schedule		F	F		F	F												
4.4c. Describe typical documents and data sources utilized in p	project	F	F	F	F	F	F	F	F	F	W	W	W	W	F	F	F	F
management																		
4.4d. Identify and explain the major elements of a project, and		F	F	F	F	F	F	F	F	F								F
discuss their relationship																		
4.4d. Using the results from an analysis of contractor noncomp		, F	F			F									F		F	1
determine the potential implications and describe how to)																	
communicate the results to contractor and Department																		
management																		
4.4e. Explain the purpose and use of a Project Management		F	F	F	F	F											F	F
Plan (PMP)																		
4.4f. Discuss the role of configuration management as it relates	s to	F	F	F		F												1
project management																		
4.4g. Describe the purpose and use of work packages and/or p	olannin	g F	F	W	F	W									F		F	1
packages																		
4.4g. Discuss the role of quality assurance as it relates to proje	ect	F	F	F		F		F			F		F					1
management																		
4.4h. Explain the use of safety plans in the management of pro	jects	F	F	F		F					F	F						1
4.4i. Describe the "critical path method" of scheduling		F	F		W	F					F	F	F	F				
4.4i. Discuss the relationship between work breakdown structu	re	F	F	F	F	F	F	F	F	F	F				F	F	F	F
(WBS) and cost and schedule																		
4.4j. Describe the requirements for project/program files and		F	F			F									F			F
documentation		_																
4.4j. Describe the purpose and use of work packages and/or pl	anning	F	F	W	F	W									F		F	1
packages			1							· · · · ·		,	,					
4.4k. Describe the purpose of schedules and discuss the use of	of	F	F	F	F	F		F			F	W	F	F				
milestones and activities			1							· · · · ·								
4.4I. Describe the critical path method of scheduling		F	F		W	F					F	F	F	F				
4.4m. Explain the concept of a project management baseline a	nd	F	F	W	W	W	F	F	F	F					F	F	F	F
describe the three baselines used in project manageme			1															

A.F. Al-ilit. to another manifest management of the control of the																		
4.5 Ability to perform project management duties as required to																		
provide electrical systems technical support to a project		_	_				_		_						_	_		
4.5a. Ensure that cost, schedule, and scope requirements are me	et	F	F	F	F	F	F	F	F	F					F	F	F	F
4.5a. Support the preparation of a Project Execution Plan												F						
4.5b. Evaluate a Work Breakdown Structure (WBS)		F	F	F	F	F	F	F	F	F					F	F	F	F
4.5b. Act as principal contact and liaison for the exchange of						F									F	F		
information between the contractor and the Department																		
4.5c. Ensure that instructions to the contractor are within the term	ns					F									F	F		
of the contract																		
4.5c. Evaluate a project's critical path schedule		F	F		F	F												
4.5d. Using the results from an analysis of contractor noncomplia	ance,	F	F			F									F		F	
determine the potential implications and describe how to																		
communicate the results to contractor and Department																		
management																		
4.5d. Ensure compliance by the contractor with the technical, saf	fety,	F	F	F	F	F		F							F	F	F	F
and administrative requirements of the contract																		
4.5e. Participate in the formulation and approval of plans and																		
schedules											l						1	
4.5f. Arrange for contacts between the construction contractor, of	ther														F			
participants, and appropriate staff as required															-			
participanto, and appropriate stan de required																		
4.6 Familiarity level knowledge of the DOE project management																		
system including the application of contractor resources to me	eet																	
commitments to quality, safety, cost, and schedule																		
4.6a. Explain the purpose of project management and describe the	26	F	F	F	F	F	F	F	F	F	F	F	F	F		F	F	F
phases of a typical project	10	•	•	•	•	•	' '	•	'		'	•			- 1	•	• 1	•
4.6b. Describe the primary roles and responsibilities of electrical																		
systems personnel as outlines in DOE Order 4700.1,																		
Project Management System																		
4.6c. Describe typical documents and data sources utilized by																		
electrical systems personnel in project management																		
4.6d. Identify and explain the major elements of a project and dis	CLICC	F	_	_	_	_	_	_	_	_	l				- 1	1		F
their relationship	cuss	' '	'	•	•		' '	'	'	'				- 1	- 1			
4.6e. Explain the purpose and use of a project execution plan		_	- 1	_	_	_			ı		1			- 1	- 1	1	F	F
	_	F	Г		г	F											Г	г
4.6f. Discuss the role of configuration management as it relates to	.0	г	г	г		г								- 1				
project management	-4-	_	_	_		_			1			_			- 1	1		
4.6g. Explain the use of safety plans in the management of project		F	-	-	_		_	_	_	_	F	F			_	_	-	_
4.6h. Discuss the relationship between work breakdown structure	Э	F	F	F	F	F	F	F	F	F	F				F	F	F	F
(WBS) and cost and schedule		_	_		_				ı		ı				_	1	- 1	
4.6i. Describe the purpose and use of work packages and/or plan	nning	F	F	W	F	W									F		F	
packages				_	_	_		_	1		_							
4.6j. Describe the purpose and of schedules and discuss the use	of	F	F	F	F	F		F			F	W	F	F				
milestones and activities		1	1						1									
4.6k. Describe the critical path method of scheduling		F	F		W	F					F	F	F	F				
4.61. Explain the concept of a project management baseline and	\perp	F	F	W	W	W	F	F	F	F					F	F	F	F
describe the four baselines used in project management																		
4.7 Familiarity level knowledge of program and project manageme	ent]
4.7a. Explain the purpose of project management as it relates to		F	F	F		F		F			F		F					\Box
quality assurance activities																		
4.7b. Describe typical documents and data sources utilized in pro	oject	F	F	F	F	F	F	F	F	F	W	W	W	W	F	F	F	F
management		,	,												,	,	,	
	_			-	-	_		_	-	_						1		F
4.7c. Identify and explain the major elements of a project and dis	cuss	F	F	F	F	F	F	F	⊢	F							- 1	
4.7c. Identify and explain the major elements of a project and dis their relationship	cuss	F	F	F	F	F	F	F	F	F						l		
		F	F	F	F	F	F	F	F	F							F	F

4.74. Describe the purpose of schedules and discuss the use of project management as described in Purpose of Schedules and discuss the use of milestones and activities 4.79. Describe the purpose of schedules and discuss the use of milestones and activities 4.71. Describe the purpose of schedules and discuss the use of milestones and activities 4.72. Describe the requirements for program/project files and cocumentation 4.8 Environmental compliance personnel shall demonstrate a management as described in DeC Order 4700.1, Project Management as described in DeC Order 4700.1, Project Management as the school of the purpose of schedules and discuss the use of milestones and activities 4.80. Describe the purpose of project management as described in Purpose of project/program files and the purpose of project management as treations to qualify the application of contractor resources to meet commitments to qualify, safety, cost, and schedule 4.10e. Describe the purpose of project management as treations to project management as described in Project management as described in Proj																		
4.75. Describe the purpose and use of work packages and/or planning F F W F W F W F F	4.7e. Discuss the role of configuration management as it relates to	F	F	F		F												
A 179. Describe the purpose of schedules and discuss the use of milestones and activities A 179. Describe the requirements for program/project files and project management accompliance personnel shall demonstrate a familiarity level knowledge of program and project management as described in DOE Order A7001. Project Management System, and DOE Technical Standard. DOE-STD-1073-93. Guide for Operational Configuration Management A 8. Explain the purpose of project management as described in DOE Order A7001. Project Management A 8. Explain the purpose of project management A 8. Describe the life cycle of a typical project A 8. Describe the purpose of project management A 9. Explain the purpose of project management A 9. Explain the purpose of project/program files and discuss the use of milestones and activities A 9. Explain the project management of project project management A 10. Explain the project management personnel project management A 10. Explain the purpose of project management system. In ODE Order A 100. Describe the primary roleget management and describe the project management system including the application of contractor resources to meet commitments to quality, safety, cost, and schedule A 100. Describe the primary roleget management and describe the primary roleget management and describe the primary roleget management A 100. Describe the primary roleget management and describe the primary roleget management and describe the primary roleget management as trelationship. A 100. Explain the purpose and use of a project and discussed the prince of the purpose of schedule A 101. Discuss the relationship between work breakdown structure (MBS) and cost and schedule A 102. Explain the purpose and use of a project management as trelates to F F F F F F F F F F F F F F F F F F	project management																	
A 179. Describe the purpose of schedules and discuss the use of milestones and activities A 179. Describe the requirements for program/project files and project management accompliance personnel shall demonstrate a familiarity level knowledge of program and project management as described in DOE Order A7001. Project Management System, and DOE Technical Standard. DOE-STD-1073-93. Guide for Operational Configuration Management A 8. Explain the purpose of project management as described in DOE Order A7001. Project Management A 8. Explain the purpose of project management A 8. Describe the life cycle of a typical project A 8. Describe the purpose of project management A 9. Explain the purpose of project management A 9. Explain the purpose of project/program files and discuss the use of milestones and activities A 9. Explain the project management of project project management A 10. Explain the project management personnel project management A 10. Explain the purpose of project management system. In ODE Order A 100. Describe the primary roleget management and describe the project management system including the application of contractor resources to meet commitments to quality, safety, cost, and schedule A 100. Describe the primary roleget management and describe the primary roleget management and describe the primary roleget management A 100. Describe the primary roleget management and describe the primary roleget management and describe the primary roleget management as trelationship. A 100. Explain the purpose and use of a project and discussed the prince of the purpose of schedule A 101. Discuss the relationship between work breakdown structure (MBS) and cost and schedule A 102. Explain the purpose and use of a project management as trelates to F F F F F F F F F F F F F F F F F F	4.7f. Describe the purpose and use of work packages and/or planning	F	F	W	F	W									F		F	
A.7b. Describe the purpose of schedules and discuss the use of milestones and activities 4.7b. Describe the requirements for program/project files and documentation 4.8 Environmental compliance personnel shall demonstrate a familiarity level knowledge of program and project management as described in ODE Order 4700.1, Project Management System. and DOE Technical Standard. DOE-STD-1073-93, Guide for Operational Configuration Management System and DOE order 4700.1, Project Management System. And DOE-STD-1073-93, Guide for Operational Configuration Management System and DOE order 4700.1, Project Management System and DOE-STD-1073-93, Guide for Operational Configuration Management System that the purpose of project management system in the purpose of project management system the file cycle of a typical project				1				1	1					,	-		- 1	
4.7h. Describe the requirements for program/project files and documentation 4.8 Environmental compliance personnel shall demonstrate a familiarity level knowledge of program and project management as described the file (s) of a typical project management as described the purpose of project management spranel as the project management spranel as outlines in DOE Order 4700.1, Project Management of project management spranel as outlines in DOE Order 4700.1, Project Management and discuss the use of an including the application of contractor resources to met commitments to quality, safety, cost, and schedule spranel project and discuss the relationship between work breakdown structure (M.10). Explain the purpose and use of work packages and discuss the relationship between work breakdown structure (M.10). Explain the purpose and use of work packages and discuss the use of maintenance management personnel as outlines in DOE Order 4700.1, Project Management sprace that sources used by facility maintenance management personnel as outlines in DOE Order 4700.1, Project Management personnel as outlines in DOE Order 4700.1, Project Management personnel as outlines in DOE Order 4700.1, Project Management personnel as outlines in DOE Order 4700.1, Project Management personnel as outlines in DOE Order 4700.1, Project Management personnel as outlines in DOE Order 4700.1, Project Management personnel as outlines in DOE Order 4700.1, Project Management personnel as outlines in DOE Order 4700.1, Project Management personnel as outlines in DOE Order 4700.1, Project Management personnel as outlines in DOE Order 4700.1, Project Management personnel as outlines in DOE Order 4700.1, Project Management personnel as outlines in DOE Order 4700.1, Project Management personnel as outlines in DOE Order 4700.1, Project Management personnel asolutions in DOE Order 4700.1, Project Management of Project Manag	1 0	F	F	F	F	F		F			F	۱۸/	F	F			1	
4.8 Environmental compliance personnel shall demonstrate a If amiliarity level knowledge of program and project management as described in DCG Order 4700.1, Project Management system, and DCE Technical Standard, DCDE-STD-1073-93, Guide for Operational Configuration Management A8. Explain the purpose of project management A8. Explain the purpose of project management A8. Describe the life cycle of a typical project A8. Describe the life cycle of a typical project A8. Describe the purpose of project management and describe the purpose of project management A8. Describe the purpose of project management and describe the purpose of project management A8. Describe the purpose of project management and describe the purpose of a spical project and discuss their relationships A8. Describe the purpose of project management so the project project management and describe the purpose of a spical project program files and discuss the use of milestones and activities A8. Describe the purpose of schedules and discuss the use of milestones and activities A8. Describe the purpose of schedules and discuss the use of milestones and activities A8. Describe the purpose of schedules and discuss the use of milestones and activities A8. Explain the project managements for project/program files and project management and environmental compliance personnel A9. Explain the project management and describe the phases of a typical project management and describe the phases of a typical project management and describe the phases of a typical project management personnel as outlines in DOE Order A700.1, Project Management personnel as outlines in DOE Order A700.1, Project Management personnel as outlines in DOE Order A700.1, Project Management personnel as outlines in DOE Order A700.1, Project Management personnel as outlines in DOE Order A700.1, Project Management personnel as outlines in DOE Order A700.1, Project Management personnel as outlines in DOE Order A700.1, Project Management personnel as outlines in DOE Order		'	١.	1 '	٠.	' '		'			'	vv	•	•			- 1	
48. Environmental compliance personnel shall demonstrate a familiarity level knowledge of program and project management as described in DOE Order 4700.1, Project Management System, and DOE Technical Standard, DOE-STD-1073-93, Guide for Operational Configuration Management 4.8a. Explain the purpose of project management F F F F F F F F F F F F F F F F F F F				1	1	_						1		- 1	_		1	_
4.8 Environmental compliance personnel shall demonstrate a familiarity level knowledge of program and project management as described in DOE Order 4700.1, Project Management System, and DOE Technical Standard, ODE-STD-107-37-38, Guide for Operational Configuration Management Management Part of the purpose of project management Part of the purpose of schedules and discuss the use of milestones and activities Part of the project project management Part of the project Part of the proje		F				F									F			F
described in DOE Order 4700.1, Project Management System, and DOE Technical Standard, DOE-STD-1073-93, Guide for Operational Configuration Management Male purpose of project management as described the life cycle of a typical project Management Male System including the application of contractor resources to meet commitments to quality, safety, cost, and schedule 4.10b. Describe the propose of project management as discussed by Facility maintenance management personnel in project management Male Male Male Male Male Male Male Male	documentation																	
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4.101. Explain the concept of a project management baseline and describe the four baselines used in project management 4.15 Familiarity level knowledge of the general principles of project management as described in DOE Order 4700.1, Project	milestones and activities																	
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4.15a. Discuss the purpose and requirements of the Order		F	F	V	٧	W	W		F	F	F	F	F	F	F
4.15b. Discuss the responsibilities of safeguards and security															
personnel participating in the Department project															
management system in terms of administration and															
coordination of the safeguards and security programs															